NAME

csqrt, csqrtf, csqrtl – complex square root

SYNOPSIS

#include <complex.h>

double complex csqrt(double complex z);

float complex csqrtf(float complex z);

long double complex csqrtl(long double complex z);

Link with -lm.

DESCRIPTION

These functions calculate the complex square root of z, with a branch cut along the negative real axis. (That means that csqrt(-1+eps*I) will be close to I while csqrt(-1-eps*I) will be close to -I, if eps is a small positive real number.)

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
csqrt(), csqrtf(), csqrtl()	Thread safety	MT-Safe

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

SEE ALSO

cabs(3), cexp(3), complex(7)

COLOPHON

This page is part of release 5.05 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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